

Abstract

The invention relates to a device (1) and a method for the generation of
5 respiratory air (7). The device (1) according to the invention makes it
possible to dehumidify air optimally. The dehumidification problem is
achieved with a tapering passage (9), in particular with a nozzle (3). The
nozzle (3) is contained in a tube (2) in which the mixture of air and water
flows. A pressure which is higher on one side and which leads to a local
10 increase in the flow rate in the nozzle (3) and to a lower temperature prevails
in the nozzle (3). These circumstances result in the water further condensing
out of the air in the nozzle (3). The water which is condensed out is entrained
by the air stream and can be separated off in a water separator (6)
connected directly after the nozzle (3), even before the gas or the air (after
15 the nozzle) can become saturated again.
(Fig. 1)